By-Ehresman, Norman D., Peterson, Marlene

Summary of Studies in Vocational and Technical Education in North Dakota, 1960-1969. Research Report No.

North Dakota Center for Research in Vocational-Technical Education, Grand Forks.; North Dakota Univ., Grand Forks. Coll. of Education.

Pub Date May 69

Note-18p.

EDRS Price MF -\$0.25 HC -\$1.00

Descriptors - *Bibliographies, Doctoral Theses, *Educational Research, *Industrial Arts, Masters Theses, Research Coordinating Units, *Research Projects, *Vocational Education

Identifiers - *North Dakota

Doctoral dissertations, masters theses, staff studies, and independent studies completed in North Dakota from 1960 to 1969 are included in this bibliographic listing. The number of research publications in each area are: (1) agricultural education, 12. (2) business education, 107. (3) distributive education, 6. (4) home economics. 12. (5) industrial arts. 13. (6) trade and industrial education. 4, and (7) general vocational education, 15. (DM)

Summary of Studies in Vocational and Technical Education in North Dakota, 1960-1969

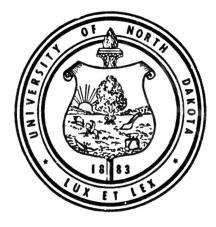
Research Report No. 15

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL OFFICE OF EDUCATION POSITION OR POLICY.

NORMAN D. EHRESMAN)
MARLENE PETERSON,

RESEARCH COORDINATING UNIT in

FOR VOCATIONALL EDUCATION, Is and Lower and Lower and Lower will be and Lower and Lower will be and Lower and Lower will be an another will be an a



COLLEGE, OF EDUCATION, RFR64
UNIVERSITY OF NORTH DAKOTA
GRAND FORKS, NORTH DAKOTA

VT008818

May, 1969

TABLE OF CONTENTS

Chai	pter
CITA	1001

I.	INTRODUCTION		•	•	0	n	•	•	•	•	•	٠	•	•	•	•	•	•	•	•	•	•	•	1
	Background																							
II.	METHODOLOGY					•	•		•		•	•	•	•	٠	•	•	•	•	•	•	•	•	;
III.	SUMMARY OF STUDIES	ς,														•	•	•	•	•	•	•	•	

Agricultural Education
Business Education
Distributive Education
Home Economics
Industrial Arts Education
Trade and Industrial Education
General Vocational Education

CHAPTER I

INTRODUCTION

Background

This report was compiled because of many requests for a listing of vocational education research in North Dakota. Publication and distribution of this information is a function and responsibility of the Research Coordinating Unit. Although not a great deal of research has been completed in the area of Vocational/Technical Education, the purpose of the report is to recognize what has been done, and to encourage further research.

The North Dakota Research Coordinating Unit wishes to acknowledge the assistance of those who provided the information:

- Orlin Bakken, Director, Continuing Education, North Dakota State School of Science, Wahpeton, North Dakota
- Lois Baldwin, Administrative Assistant, Graduate School, University of North Dakota, Grand Forks, North Dakota
- Myron Bender, Assistant Professor and Acting Chairman, Industrial Arts, University of North Dakota, Grand Forks, North Dakota
- Ed Dunn, Technical and Vocational Center, Anoka, Minnesota
- Dr. Doroty Grovom, Associate Professor of Business Education, University of North Dakota, Grand Forks, North Dakota
- Oswald M. Hager, Associate Professor, Distributive Education, University of North Dakota, Grand Forks, North Dakota
- J. A. Horton, Director, Trade and Technical Division, State School of Science, Wahpeton, North Dakota

- Shubel D. Owen, Professor, Agricultural Education, North Dakota State University, Fargo, North Dakota
- Dr. Josephine B. Ruud, Professor and Chairman, Home Economics Education, North Dakota State University, Fargo, North Dakota
- Dr. John L. Rowe, Professor of Business Education and Chairman of the Department, University of North Dakota, Grand Forks, North Dakota
- Dr. John A. Thompson, Director of Graduate Studies, University of North Dakota, Grand Forks, North Dakota

CHAPTER II

METHODOLOGY

To obtain the information for the report, teacher educators in schools which have programs leading to Masters' Degrees or Doctorates in areas of vocational education were contacted. Since it was known that faculty members at the State School of Science, Wahpeton, North Dakota, had completed studies on North Dakota, that School was also contacted.

Studies published through the North Dakota Research Coordinating Unit for Vocational and Technical Education were also included.

The report represents an effort to locate studies completed in Vocational and Technical Education in North Dakota since 1960. Only Business Education Doctoral Dissertations and Masters' Theses of a vocational nature are included. Independent Studies in Business Education are not included.

The Research Coordinating Unit invites comments, suggestions or additions for a later revision.

CHAPTER III

SUMMARY OF STUDIES

Agricultural Education

- Anderson, Clarence W. A Study of the Opportunities for Establishment in Farming in the Enderlin, North Dakota Service Area in the Ten Year Period 1966 to 1976. NDSU, Research Study, June 1967.
- Buck, Gerald L. An Analysis of why Freshmen who Enrolled in the College of Agriculture at North Dakota State University for the Fall Term of 1960 Dropped Out of School. NDSU, Research Study, June 1964.
- Ditmer, Wayne Wilson. A Study of Job and Educational Experiences of Vocational Agriculture Graduates in the Year 1957 from Selected North Dakota High Schools. NDSU, Research Study, November 1963.
- Hankel, Wayne L. The Educational Interests of Young Farmers of Steele County, North Dakota. NDSU, Research Study, November 1963.
- Melin, Kenneth A. Educational and Occupational Interests and Factors Which Influenced 218 Walsh County High School Seniors In Making Occupational Decisions. NDSU, Research Study, September 1967.
- Mehrer, Ronald E. Opinions of Teachers and High School Graduates Relative to Selected Aspects of the Curriculum for Day School Vocational Agriculture Programs in the State of North Dakota. NDSU, Research Study, 1964.
- Moilanen, Charles W. <u>Evaluation of Selected Farm Mechanic Skills and Abilities by North Dakota Vocational Agriculture Instructors</u>. NDSU, Research Study, May 1963.
- Nayes, James. Evaluation of Selected Farm Mechanic Skills and Abilities by Farmers. NDSU, Research Study, May 1964.
- Palmer, Dwight E. An Analysis of the Subject Matter Content and Readability of 239 Publications Used as 4-H Meat Animal Project Literature in 46 States. NDSU, Research Study, June 1961.
- Priebe, Donald W. A Study of the Job and Educational Experiences of the 1959 Vocational Agriculture Graduates of Selected North Dakota High Schools. Research Report No. 8, NDRCU, UND, August 1967. (Study conducted at NDSU).

- Vallager, Emil. An Evaluation of the Relative Importance Assigned to
 Selected Abilities by Employers in Non-Farm Agricultural Occupations in the Wahpeton, North Dakota Area. NDSU, Research Study, August 1967.
- Well, William. A Comparison of the Farmers in the Medina, North Dakota Public School District who have Attended Adult and Young Farmer Courses and Those who have not Attended. NDSU, Research Study, October 1965.

Business Education

- Abicht, M. Rita Jeanne (Sister), F.S.P.A. Relative Effects of Studying Spelling Kinesthetically Through the Medium of the Typewriter. UND, Thesis, 1965.
- Atwood, Dale D. <u>Periodicity of Effort in Beginning Typewriting</u>. UND, Dissertation, 1964.
- Atwood, Dale D. The Selection of Instructional Topics for Typewriting Methods Courses at the Undergraduate Levels. UND, Thesis, 1960.
- Bachmeier, Joseph. <u>Criteria for the Evaluation of Student Achievement</u> for First Year Bookkeeping in North Dakota High Schools. UND, Thesis, 1963.
- Beith, Shirley Nelson. A Follow-Up Study of the Business Education Graduates of the North Dakota School of Forestry for 1957 to 1960, Inclusive. UND, Thesis, 1961.
- Benson, Vernon L. A Survey of Selected Business Firms in South Dakota to Aid in Determining the Need for Office Machines Training on the Secondary School Level. UND, Thesis, 1963.
- Beringson, Donald L. A Study to Determine the Certification Requirements to Teach Business Education in the United States. UND, Thesis, 1966.
- Bloomquist, Roger J. <u>Identification of Digital Typewriting Patternisms at Selected Levels of Skill</u>. UND, Dissertation, 1968.
- Bollinger, Edgar. The Establishment and Implementation of Guiding Principles for Motivation in Teaching Shorthand. UND, Thesis, 1960.
- Boyer, Glenn L. Office Practice Terminology Based Upon A Word-Study Count as Revealed in the Professional Literature from 1956 to 1965. UND, Thesis, 1966.
- Brecto, Betty Lou. A Survey of the Extent Office Machines and Filing are Being Taught in Minnesota High School Business Education Courses. UND, Thesis, 1964.

- Calder, Ebenezer. An Experimental Study to Determine the Relative Merits of Teaching a Practical College Bookkeeping Course at Bemidji State College as a Preparatory Learning Experience for the College Elementary Accounting Course. UND, Dissertation, 1964.
- Campbell, Donald Lee, Jr. <u>Curriculum Patterns in Four-Year Secretarial</u>
 Science Programs in <u>Selected Colleges and Universities of the United States</u>. UND, Dissertation, 1967.
- Carlson, Hugo L. <u>Supervisory Activities Pertaining to the Business Education</u>
 <u>Cooperating Teacher</u>. UND, Thesis, 1966.
- Carlson, Mayme J. A Survey of Methods Used in the Teaching of Second-Year Shorthand in the Public High Schools of Minnesota with Enrollments of 200 or More in Grades 10, 11, and 12. UND, Thesis, 1962.
- Chase, Dayton K. A Study to Identify the Basic Skills Needed with Adding and Calculating Machines for Office Positions with Implications for Improvement of Instructions in Office Machines. UND, Dissertation, 1965.
- Coninx, Sadie. An Analysis and Classification of Errors Made by Secondary School Students in Typewriting at the End of the First Semester. UND, Thesis, 1963.
- Cunningham, Bernice R. An Analysis of Scores on Selected Standardized Tests in Relation to Success or Failure of First-Year Bookkeeping Students to Determine Placement Criteria for Accounting, Bookkeeping and Recordkeeping. UND, Thesis, 1966.
- Davison, Wayne D. A Study of the Reasons why Selected Business Education Subjects are not Taught in the Public High Schools of North Dakota. UND, Thesis, 1963.
- Del Furiz, Shirley Gillgard. A Comparison of the Methods of Teaching Typewriting in the United States and Sweden. UND, Thesis, 1966.
- Dublanko, Tofen. A Follow-Up Study of the Victoria Composite High School, Edmonton, Alberta, Business Education Graduates for the Years 1956, 1957, and 1958. UND, Thesis, 1960.
- Durand, Mrs. Carol J. Theories and Practices in Junior High School Type-Writing. UND, Thesis, 1966.
- Ehley, Marvin. Status of Shorthand in the Fully Accredited High Schools of North Dakota, 1960-1961. UND, Thesis, 1961.
- Espeseth, Vernon Knute. Creativity in Typewriting Teaching Methodology
 Applied to Selected Physically Handicapped Students. UND, Thesis, 1961.

- Featheringham, Richard D. The Validity of Personal-Use Typewriting Courses as Determined by an Analysis of the Practical Application of this Subject over a Fifteen-Year Period (1950-1964). UND, Dissertation, 1965.
- Foy, Mary Antonine (Sister), P.B.V.M. A Design for a Functional Office Practice Course at Shanley High School, Fargo, North Dakota. UND, Thesis, 1962.
- Frost, Dona Fay. A Study of Occupation and Social Adjustments of Beginning Business Education Teachers in the State of Illinois. UND, Thesis, 1960.
- Frost, Dona Kay. The Relationship of Secretarial Success in Selected
 Automated Offices in the St. Louis Area to an Understanding of Data
 Processing Terminology. UND, Dissertation, 1967.
- Garry, John C. An Analysis of Typescript Errors and a Determination of Developmental Patterns of Errors of First-Year Typists on Electric Typewriters. UND, Dissertation, 1967.
- Gehring, Virgil D. <u>Conflicting Opinions in Teaching the Slow Learner in Vocational Business Education--as Revealed in the Literature</u>. UND, Thesis, 1962.
- Giovanni, Mary Audrey. <u>Conflicting Opinions in the Grading of Production</u>

 <u>Typewriting as Revealed in the Literature, 1955-1965</u>. UND, Thesis, 1966.
- Goetz, Leo G. The Relationship Between Symbol Mastery and Selected Dictation Achievements in Gregg Shorthand. UND, Dissertation, 1966.
- Grill, George P. An Analysis of Digit and Symbol Patterns in Business Communications as a Factor in Reappraising Course Content Relative to Selected Learning Processes in Typewriting Methodology. UND, Dissertation, 1965.
- Gryder, Robert. <u>Teaching Transcription on the Secondary Level; Theories and Practices</u>. UND, Dissertation, 1964.
- Gust, Dale D. The Development of an Annotated Bibliography of Speed Building Procedures Employed in Gregg Shorthand. UND, Thesis, 1961.
- Haberer, Richard F. "A Follow-Up Study of the Graduates of Twin Valley (Minnesota) High School for the Years 1959-1962 Inclusive". UND, Thesis. 1963.
- Hanson, Robert N. <u>Visual Stimulus Versus Combined Audio-Visual Stimuli for Out-of-Class Practice in First-Semester College Gregg Shorthand.</u>
 UND, Dissertation, 1966.

- Helming, Roger W. A Follow-Up Study of the Business Education Graduates from the Years 1961, 1962, and 1963 of North High School, Sheboygan, Wisconsin. UND, Thesis, 1964.
- Hill, Mary Bertha (Sister), P.B.V.M. An Inquiry into the Guidance and Selective Procedures for a Record Keeping Course in the Secondary School. UND, Thesis, 1954.
- Hopnan, Dennis. A Follow-Up Study of the Graduates of Esmond High School, Esmond, North Dakota, for the Years 1956, 1960, 1961, and 1962. UND, Thesis, 1965.
- Jensen, Norris L. A Follow-Up Study of the Cooperative Business Education Work Experience Program Graduates for the Years 1962, 1963, 1964, 1965, and 1966 of Minot Senior High School, Minot, North Dakota. UND, Thesis, 1967.
- Johnson, James W. <u>Criteria for Teacher Evaluation Procedures for Typewriting Students in Selected Minnesota High Schools</u>. UND, Thesis, 1962.
- Johnson, Ronald L. An Analysis of Dropouts and Failures in the First Semester of High School Beginning Shorthand. UND, Thesis, 1965.
- Jones, Ellis J. An Experimental Analysis of Two Spatial Patterns in the Mastery of the Number Key Reaches on Non-Electric Typewriters. UND, Dissertation, 1965.
- Karaim, William J. A Comparison of the Writing Practices of Two Diverse Achievement Groups of Shorthand Students when Writing from Dictation. UND, Dissertation, 1968.
- Karaim, William J. Conflicting Opinions of Teachers Concerning the Status Quo of Shorthand. UND, Thesis, 1960.
- Kenney, John E. A Synonym Dictionary of High School Business Law Terminology. UND, Thesis, 1961.
- Kroll, G. Michael. A Study to Determine Whether Spanish Speaking Students can Increase Their Typing Rates During the Second Semester of Beginning Typewriting from Materials Reproduced in Spanish. UND, Thesis, 1966.
- Langemo, E. Mark. Conflicting Opinions in Beginning Typewriting Standards as Revealed in the Literature from 1955 Through 1965. UND, Thesis, 1966.
- Larson, Allan D. An Analysis to Determine the Frequency of Digits, Symbols and Number Patterns Occurring in Business Correspondence of Selected Business Firms. UND, Thesis, 1963.

- Laughlin, Clara B. <u>The Validation of Terminology and Gregg Shorthand Out-lines for Geology.</u> UND, Thesis, 1967.
- Long, R. Charles. A Study to Determine the Effect of the Vocational Education Act of 1963 Upon Business Teacher Education Programs in Selected Colleges and Universities. UND, Dissertation, 1967.
- Lydeen, Jerald B. Adding and Calculating Machine Standards in Selected Post-Secondary Schools. UND, Thesis, 1963.
- Mesna, Marilyn J. A Comparative Study of the Reading Level of Accounting Instructional Materials with the Reading-Ability Level of the Accounting Students in a Selected Minnesota High School. UND, Thesis, 1968.
- Mitchell, William M. Articulation of Selected Business Education Subjects

 Between Senior High Schools and Non-Collegiate Post-Secondary

 High Schools with Colleges and Universities in the United States

 Awarding Business Teacher Education Degrees. UND, Dissertation,

 1965.
- Monson, Wesley L. A Follow-Up Study of the Benson County Agricultural and Training School Business Education Graduates for the Years 1957-1964. UND, Thesis, 1967.
- Morris, Jimmie D. <u>Selected Major Issues in the Teaching of First-Year Type-Writing.</u> UND, Dissertation, 1961.
- Mukomela, Kenneth D. A Follow-Up Study of the First MDTA Clerk-Stenographer Graduates at the University of North Dakota. UND, Thesis, 1966.
- Mukomela, Kenneth D. The Structure and Design of Typewritten Business Letters; An Analysis of Selected Variables. UND, Dissertation, 1968.
- Murphy, Jerry R. <u>Prerequisite Typewriting Skill Level Required for Competency in Training Key Punch Operators</u>. UND, Thesis, 1962.
- Myrold, Donald D. An Analysis of the Knowledge Possessed by a Random Population in the City of Crookston, Minnesota, Relative to the Fundamental Principles of a Minimum Program of Personal Insurance, its Purchase and Use. UND, Thesis, 1962.
- Nellermoe, Donald A. The Location and Frequency of Typewriting Errors on Straight-Copy Material Made by First-Year Typewriting Students in Grades Nine Through Twelve, Inclusive, During the Tenth and the Seventeenth Weeks of Instruction. UND, Thesis, 1962.
- Nellermoe, Donald A. <u>Typewriting Patternism Identification at Selected Levels</u> of Skill. UND, Dissertation, 1965.
- O'Brien, Edward J. <u>A Study of the Characteristics of the Highest and Lowest Ranking Typewriting Students.</u> UND, Thesis, 1960.

- Oelrich, Elizabeth Shaughnessy. The Position of the Female Secretary in the United States from 1900 Through 1967; An Historical Study. UND, Dissertation, 1968.
- Page, Alice. Conflicting Opinions in the Development of Transcription Skill as Revealed in the Literature from 1949-1960. UND, Thesis, 1960.
- Parker, George O. <u>A Comparison of the Straight-Copy Skill Scores of Students Who Begin Their Training on Electric Typewriters with Students Who Began Training on Non-Electric Typewriters</u>. UND, Thesis, 1966.
- Parsche, M. Joanina (Sister) F.S.P.A. The Effect of Technical Changes in Accounting in Industry on Teaching Bookkeeping in High School. UND, Thesis, 1966.
- Pender, Albert R. <u>A Study of the Administrative and Professional Responsibilities of Secondary School Secretarial Program Graduates in Relation to Size and Type of Employing Company</u>. UND, Dissertation, 1967.
- Perry, Devern J. An Analytical Comparison of the Relative Word-Combination Frequencies of Business Correspondence with Phase Frequencies of Selected Shorthand Textbooks. UND, Dissertation, 1968.
- Powell, Noel G. A Follow-Up Study of the 1957-1963 Stenographic-Secretarial Graduates of North Dakota State School of Science, Wahpeton, North Dakota, with Implications for Curriculum Revision. UND, Thesis, 1964.
- Richter, Lawrence H. <u>Conflicting Opinions Concerning Facets of Shorthand Training as Revealed in the Professional Business Education Literature from 1951-1960</u>. UND, Thesis, 1961.
- Roberts, Martha Marie Beck. <u>High School Business Education Department Theories and Practices in Publishing a Duplicated High School Newspaper in the Small Minnesota High School</u>. UND, Thesis, 1961.
- Rosandick, Angeline P. <u>A Study of Business Education in Idaho Public Secondary Schools, 1965.</u> UND, Thesis, 1965.
- Roser, Carol M. <u>A Follow-Up Study of the Elyria High School Clerical Specialist Graduates from 1954 Through 1960 for the Purpose of Learning How Effective Their Training has Been</u>. UND, Thesis, 1961.
- Schatz, Anne E. <u>A Study to Reveal How Business Educators at the Secondary Level Develop Desirable Personality Traits in Vocational Students.</u> UND, Thesis, 1967.
- Sharp, James R. A Study to Determine the Use of Electric and Non-Electric Typewriters in Public High Schools and Business Firms in Minnesota. UND, Thesis, 1962.

- Simpson, Ruth M. A Study of the Employment Tests Given by Business Firms in the City of Winnipeg to Selected Business Education Graduates of Sisler High School, Winnipeg, Canada. UND, Thesis, 1964.
- Skabo, Leland D. An Analytical Study to Determine the Relationship Between the Time Utilized for Selected Classroom Activities and Achievement in Shorthand Theory. UND, Dissertation, 1968.
- Skabo, Leland D. A Study of the Conflicting Opinions in the Field of Business Arithmetic in the Secondary School as Revealed in the Literature, 1946-1961. UND, Thesis, 1962.
- Spicer, Janeth L. <u>A Survey of Opinions Pertaining to the Development of Composition Skill at the Typewriter</u>. UND, Thesis, 1968.
- Stadel, Emil J. A Study of Materials and Methods in a Beginning Typewriting Course for Adults. UND, Thosis, 1961.
- Staples, John D. An Experimental Study to Identify the Basic Abilities

 Needed to Detect Typescript Errors with Implications for the

 Improvement of Instruction in Typewriting. UND, Dissertation, 1965.
- Stempson, Tani T. <u>Conflicting Opinions on the Presentation of Office Machines at the Secondary Level as Revealed in the Literature.</u> UND, Thesis, 1966.
- Storvik, Raphael (Father), O.S.B. <u>A Short History of Stenography up Through</u> the Fifth Century. UND, Thesis, 1960.
- Stuart, Eudene M. The Relationship Between Bookkeeping Practices in the City of Sarnia, Ontario and the High School Commercial Course in the Province of Ontario. UND, Thesis, 1962.
- Sullivan, John W. An Analysis and Comparison of Curriculums and Administrative Practices in the Private Business Schools of Minnesota, South Dakota, and North Dakota. UND, Thesis, 1967.
- Swenson, LeRoy H. A Study of Procedures Used in the Administration of Practice Sets in First-Year Bookkeeping in the State of North Dakota. UND, Thesis, 1960.
- Swenson, Renee Y. <u>Conflicting Opinions in the Teaching of Selected Aspects of Gregg Shorthand Theory as Revealed in the Professional Business Education Literature From 1953 to 1962.</u> UND, Thesis, 1963.
- Theusch, David. An Annotated Bibliography on Team Teaching in Business Education. UND, Thesis, 1966.
- Thies, Norman W. A Typewriting Experiment to Compare Class Performances on Straight Copy Three-Minute Writings Relative to Accuracy and Speed Following Three Selected Conditioning Drills. UND, Dissertation, 1968.

- Thompson, Dorothy Jean. An Interpretive Analysis of Error Stroking Serial Responses to Determine Their Effect Upon Patternism in Typewriting. UND, Dissertation, 1967.
- Thompson, Ethel L. A Review of Conflicting Opinions in Objectives,
 Approaches, Testing and Grading in Elementary High School Bookkeeping Found in the Professional Literature From 1953 to 1963. UND,
 Thesis, 1964.
- Thornton, Delilah Mickelson. <u>The Validation of Terminology Peculiar to the Teaching of Gregg Shorthand and Transcription Based Upon a Work Count of the Articles in Professional Literature, Shorthand Methods Textbooks, and Teacher's Manuals. UND, Thesis, 1960.</u>
- Thornton, Patricia Watson. <u>Factors that Influence the Selection of Business Teaching as a Career Among Students From Selected Colleges in the United States</u>. UND, Thesis, 1964.
- Tjornhom, Susanne A. <u>Business Curriculum Patterns in Selected Public</u>
 <u>Junior Colleges in the United States</u>. UND, Dissertation, 1967.
- Tjornhom, Susanne A. <u>The Development of Basic Principles of Grading for Use in Beginning Typewriting Classes in the Secondary School.</u> UND, Thesis, 1960.
- Tschider, Irene R. <u>A History of Selected Studies in Shorthand Prognosis</u>
 <u>From 1914 to 1960.</u> UND, Thesis, 1960.
- Vanderdam, Louise Heilman. An Inquiry Into the Weaknesses of Clerical,
 Stenographic and Secretarial Employees as Expressed by Selected
 Employment Officials in Dade County, Florida. UND, Thesis, 1966.
- Veaker, Joan Therese (Sister). A Survey of Illinois Guidance Counselor's Understanding of the Stenographic Occupation. UND, Thesis, 1968.
- Vooge, Robert M. <u>A History of Changing Trends and Ideas of Selected Type-Writing Equipment and Teaching Aids.</u> UND, Thesis, 1966.
- Vorachek, Georgetta. <u>A Survey of Office Machines in the Selected North Dakota High Schools.</u> UND, Thesis, 1960.
- Walejko, Charles. A Follow-Up Study of the Brussels, Wisconsin High School Secretarial Training Graduates and Their Employers From 1959 Through 1961. UND, Thesis, 1962.
- Ward, Raymond A. A Survey of Employers in Selected Business Firms in Grand Forks, North Dakota to Determine the Office Requirements for Clerical and Secretarial Workers. UND, Thesis, 1962.
- Wells, Patricia Ann. Office Employment Opportunities for Low-Ability Secondary School Graduates in Four Selected Cities in North Dakota. UND, Thesis, 1967.

- White, Gladys M. A Study to Determine the Feasibility of an Office Cooperative Work Experience Frogram in Henserdon Attendance Area of the Clark County School District, Las Vegas, Nevada. UND, Thesis, 1963.
- Zandi, Donald F. A Follow-Up Study of the P.J. Jacobs High School, Stevens Point, Wisconsin, Business Education Graduates for the Years 1959, 1960, and 1961. UND, Thesis, 1962.

Distributive Education

- Davy, Ronald D. A Survey of the Distributive Education Graduates of Minot High School 1950 to 1960. UND, Independent Study, August 1960.
- Mielke, Eugene D. An Index of Readings in Distributive Education 1940 to June, 1966. UND, Independent Study, August 1966.
- Smith, Robert G. The Use of Advertising and Merchandise Display Projects in the Post-Secondary Distributive Education Program. UND, Independent Study, January 1968.
- Stai, James L. <u>Contribution of Distributive Education to Agri-Business</u>. UND, Independent Study, August 1968.
- Nielsen, John B. Characteristics of Academic Achievement in Distributive Students. UND, Independent Study, January 1969.
- Pokladnik, Leonard F. Opportunities in Distributive Occupations in Bismarck, North Dakota NDRCU, UND, Independent Study, January 1969.

Home Economics

- Brien, Rose. <u>Delinquency and its Treatment with Specific Reference to the Delinquent Girl</u>. NDSU, Research Study, Fall 1967.
- Eutenieir, Carol. <u>Facilities for Teaching Vocational Home Economics in North Dakota</u> NDSU, Research Study, June 1968.
- Fedje, Cheryl. Attitude Changes of Girls Enrolled in Occupational Home Economics. NDSU, Research Study, December 1968.
- Harstad, Gudrun. Constructing Transparencies for the Overhead Projector. NDSU, Research Study, May 1967.
- Kraft, Ruth. An Evaluation of Curriculum Materials Used for Food Service Classes in North Dakota High Schools. NDSU, Research Study, May 1969.
- Light, Harriet. The Attitudes of Rural and Urban Girls Towards Selected Concepts. NDSU, Thesis, May 1968.

- Lorentz, Carole. The Teaching of Critical Thinking Through Home Economics.
 NDSU, Research Study, May 1966.
- Miller, Patricia Ann. <u>Training Needs at the High School Level in Home</u>

 <u>Economics As Seen by the High School Students and Young Homemakers</u>.

 <u>NDSU</u>, Research Study, Summer 1969
- Millette, Rose Ann. Information Flow Among College and University Home Economics. NDSU, Thesis, May 1969.
- Slotten, Beverly. Opinions of Administrators Towards Adult Education.
 NDSU, Thesis, Spring 1969.
- Voce, Mary Ann. The Slow Learner in Home Economics. NDSU, Research Study, May 1967.
- Ward, Jean. The Physiological, Psychological and Sociological Aspects of Clothing with Implications for Teaching Junior High School Home Economics. NDSU, Research Study, May 1967.

Industrial Arts Education

- Brown, William J. A Study of the Techniques of Color Offset Reproduction and Its Application to the High School Graphic Arts. UND, Thesis, May 1964.
- Erickson, Floyd E. <u>A Proposed Industrial Technology Program for the Industrial Arts Department of the UND.</u> UND, Independent Study, 1960.
- Gangelhoff, Gordon L. <u>Industrial Arts Education in North Dakota as Compared</u> to National Recommendations for Secondary Industrial Arts Education. UND, Thesis, August 1966.
- Hout, Kermit W. A Study of the Transistor. UND, Thesis, August 1967.
- Knutson, Gothard, Jr. Educational Shop Work in the State Institutions of UND, Independent Study, 1960.
- Maynes, Samuel P. <u>A Proposed Comprehensive Industrial Education Program.</u> UND, Independent Study, 1966.
- Opdahl, Dennis D. A Study of Photoengraving with the Adaptation of Teaching Methods and Techniques and the Development of a Unit of Study for the Secondary Industrial Arts Programs. UND, Thesis, February 1969.
- Preston, James E. The Role of the Plastics Industry in Industrial Arts Education. UND, Thesis, August 1967.
- Rodewald, David J. A Proposed Industrial Technology Program in Electronics for the Industrial Arts Department of Bemidji State College. UND, Thesis, 1965.

- Rudisill, Alvin E. A Comparative Analysis of Various Factors in the Industrial Arts and Vocational Agriculture Programs of Sixty-Six Selected Upper Midwest Schools. UND, Thesis, 1960.
- Stinson, James S. A Study to Determine the Definition and Scope of the Graphic Arts Industry. UND, Thesis, August 1966.
- Vaughan, Maurice S. <u>Factors Influencing Industrial Arts Achievement for Slow Learned and Major Work Classes in Winnipeg, Manitoba.</u> UND, Thesis, 1964.
- Vigen, Howard J. The Implications of the Plastics Industry as it Affects the Industrial Arts Program. UND, Thesis, 1965.

Trade and Industrial Education

- Anderson, Roger. Predicting Achievement in Technical Programs at the North Dakota State School of Science. Research Report No. 2, NDRCU, UND, August 1966.
- Bakken, Orlin. ACT: A Predictor of Achievement. NDSU, Thesis, June 1968.
- Boshert, Charles R. A Study of the Need for Vocational Guidance in Relation to the Factors that Influence Students Enrolled in the Trade-Technical Division of the North Dakota State School of Science.

 NDSU, Research Study, 1966.
- Dunn, Ed. <u>Predicting First Year Grade Point Averages of Students in the Industrial Drafting and Design Department at the North Dakota State School of Science.</u> University of Minnesota, Thesis, 1967.

General Vocational Education

- Boyles, Gary E. A Report on Dropouts from North Dakota Public High Schools. Research Report No. 1, NDRCU, UND, August 1966.
- Christianson, Gene. A Program in Vocational Office Education Utilizing
 Independent Study, Team Teaching, and Modular Scheduling. NDRCU,
 UND, August 1968.
- The Educational and Vocational Aspirations of Prisoners. Research Report No. 5, NDRCU, UND, May 1967.
- Ehresman, Norman D., Evenson, Lyle S., and Fischer, Frank N. An Analysis of the Effectiveness of the MDTA Institutional Programs in North Dakota. Research Report No. 12, NDRCU, UND, May 1968.
- Ehresman, Norman D., Fixel, Donald J., and Wolfe, Jerry B. A Review and Synthesis of Research Relating to Vocational Education in North Dakota. Research Report No. 10, NDRCU, UND, January 1968.

- Ehresman, Norman D. and McCullagh, Ronald D. A Follow-Up Study of the Dropouts of the Bismarck, North Dakota Pre-Vocational Training Center. Research Report No. 14, NDRCU, UND, March 1969.
- Gulbrandson, Harold C. <u>Guidelines for the Development of Vocational Education Programs with Specific Application to Grand Forks, North Dakota.</u> UND, Dissertation, 1966.
- Kiefert, James J. The Migration Aspiration of North Dakota Senior Males. Research Report No. 7, NDRCU, UND, June 1967.
- Kiefert, James J. Migration Patterns and Selected Characteristics of Migrants from Walsh County, North Dakota. Research Report No. 4, NDRCU, UND, December 1966.
- McCrystal, Thomas J. A Survey of Parents of North Dakota High School
 Students Who Were Seniors in 1966. Research Report No. 6, NDRCU,
 UND, June 1967.
- Miller, Harold J. The Effects of Integration on Rural Indian Pupils. Research Report No. 13, NDRCU, UND, June 1968.
- Page, Charles M. Counseling and Guidance for Vocational Education in North Dakota. NDRCU, UND, 1969.
- Private Vocational Schools in North Dakota. Research Report No. 3, NDRCU, UND, November 1966.
- Van Erdewyk, Zeno M. <u>Variables Related to Persistence, Transfer and Attrition of Engineering Students</u>. Research Report No. 9, NDRCU, UND, September 1967.
- Zimmerman, Mrs. Beatrice B. and Amos, Mrs. Ruth. A Survey of the Need for Pre-School Teacher Training. Research Report No. 11, NDRCU, UND, January, 1968, (Study conducted at Minot State College).